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GRANULAR MAGNETIC RECORDING
MEDIA WITH IMPROVED CORROSION
RESISTANCE BY PRE-CARBON
OVERCOAT ION ETCHING

ABSTRACT OF THE DISCLOSURE

A granular longitudinal or perpendicular magnetic recording medium with enhanced corrosion resistance comprises:

- (a) a non-magnetic substrate having a surface;
- (b) a layer stack on the substrate surface, including a granular
5 longitudinal or perpendicular magnetic recording layer having a surface distal the
substrate surface treated to provide at least one of:
 - (i) a reduction of nano-scale roughness and porosity;
 - (ii) increased compositional homogeneity;
 - (iii) increased microstructural homogeneity;
 - 10 (iv) preferential removal of at least one element; and
 - (v) increased grain boundary coverage by the subsequently
deposited protective overcoat layer; and
- (c) a protective overcoat layer on the treated surface of the granular
magnetic recording layer.

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